200314072-1 Valiuddin Ali, et. al.

COMPUTER SECURITY SYSTEM AND METHOD 2/2 **START** 200 **INITIATE SECURITY MODULE** FIG. 2 202 **IDENTIFY USER DISPLAY SECURITY** ~228 204 **INTERFACE VERIFICATION** YES DATA COLLECTED 230 206 **FORGET** ₹NO N0 SECURITY CREDENTIAL 248 INITIATE COLLECTION MODULE 231 Į yes RECEIVE **USER DATA IDENTIFY SECURE COMPUTER IDENTIFY RESOURCE FOR** 207-RESOURCE FOR RECOVERY CREDENTIAL RECOVERY DATA COLLECTION **RECEIVE SECURITY IDENTIFY USER DATA CREDENTIAL GENERATE SECURITY** 208~ 234 CREDENTIAL FOR USER 232 250 **ACCESS VERIFICATION** PROVIDE SECURITY 210~ CREDENTIAL NO DATA CORRESPONDING CREDENTIAL TO USER **VERIFIED?** TO USER DATA 252 212~ **ACCESS VERIFICATION DATA** PRESENT VERIFICATION YES . QUERIES TO USER GRANT PROVIDE VERIFICATION 238 ACCESS TO 214-DATA QUERIES TO USER 236 **RESOURCE** RECEIVE RESPONSES TO RECEIVE VERIFICATION QUERY **VERIFICATION QUERIES** 254 **RESPONSES FROM USER** 216-**END** DECRYPT ENCRYPTED STORE QUERY RESPONSES PASSWORD WITH 218-240 **QUERY RESPONSES ENCRYPT SECURITY** CREDENTIAL WITH QUERY **VERIFY DECRYPTED** 220-**RESPONSE DATA** SECURITY CREDENTIAL 242 STORE ENCRYPTED NO 224-SECURITY CREDENTIAL **VERIFIED?** 244 YES ₹ ANOTHER YES NO **INITIATE CREDENTIAL** RESOURCE? RECOVERY OPERATION 246 226

200314072-1 Valiuddin Ali, et. al.